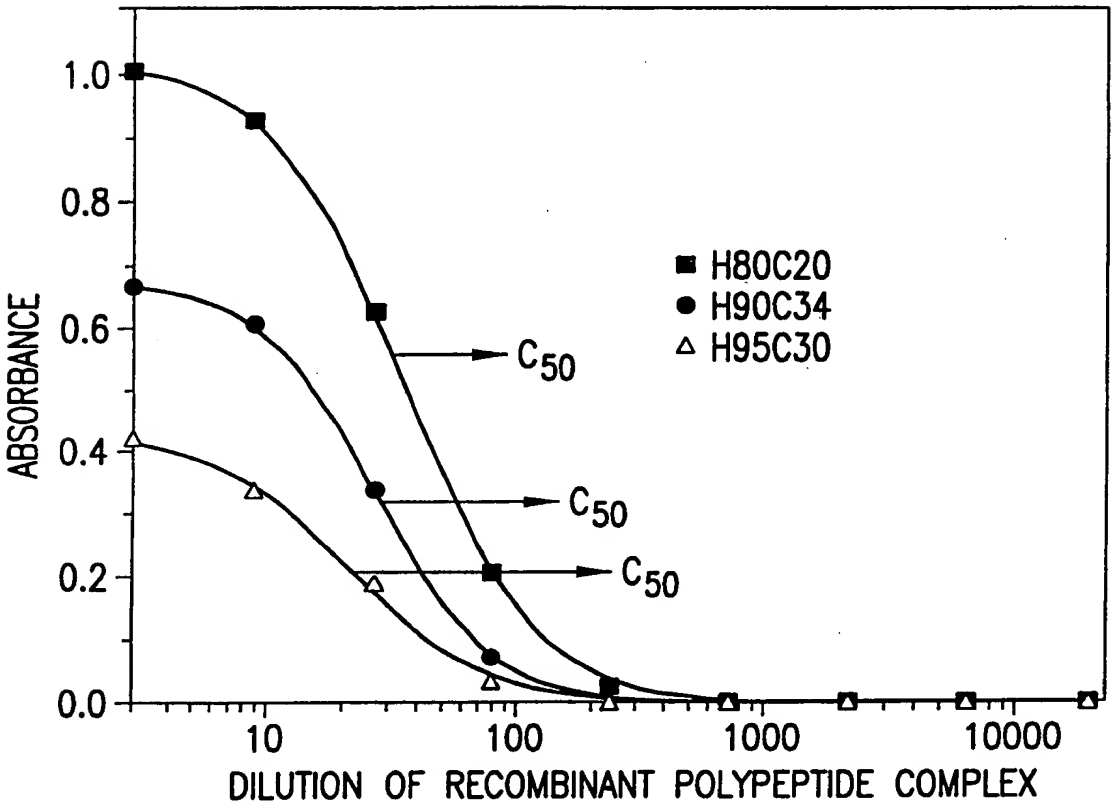

1.0
0.8
0.6
0.4
0.2
0.0
ABSORBANCE
H80C20
H90C34
H95C30
C_{50}
C_{50}
C_{50}
10
100
1000
10000
DILUTION OF RECOMBINANT POLYPEPTIDE COMPLEX

FIG.1

Malignant Breast
96102003G H9C65

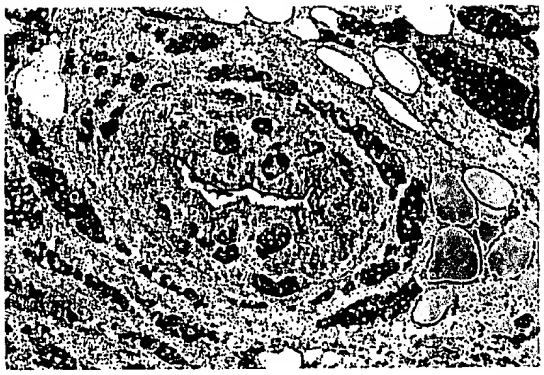


FIG.2A

Malignant Breast
9609C033R H9C65

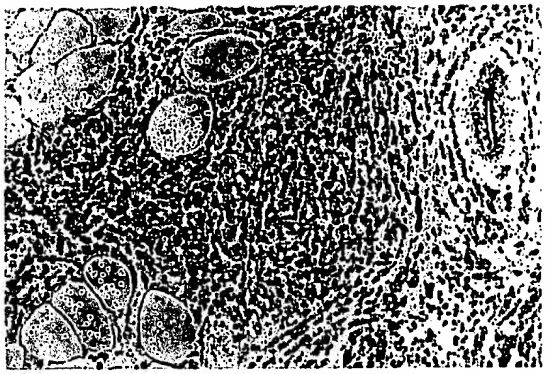


FIG.2B

Normal Breast.
9712C030G H9C65

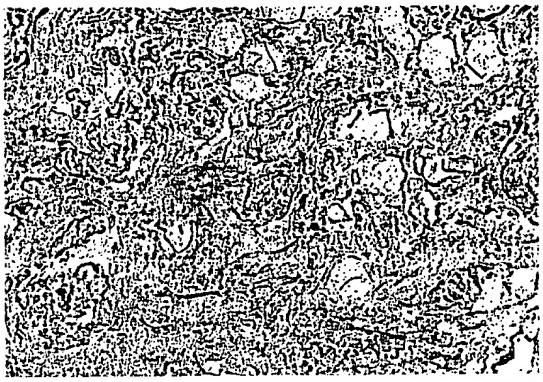


FIG.2C

MB8 Cell Line
H9C65

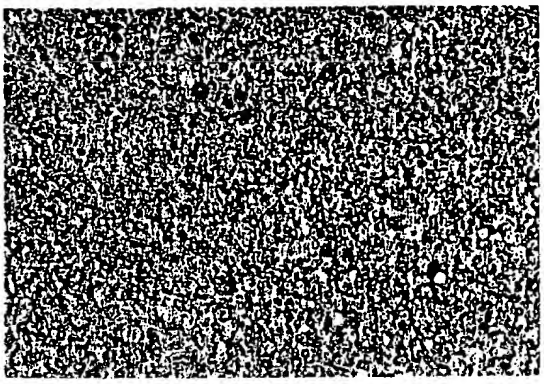


FIG.2D

Malignant Breast
96102003G H95C30

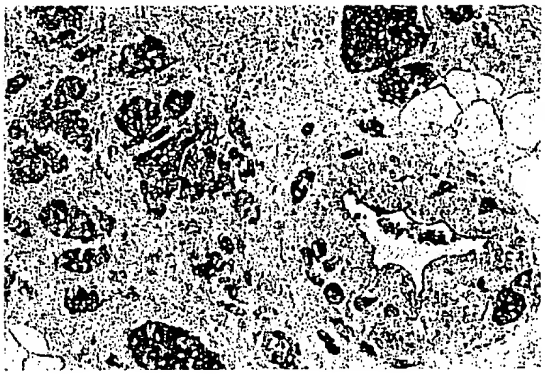


FIG.3A

Malignant Breast
9609C033R H95C30

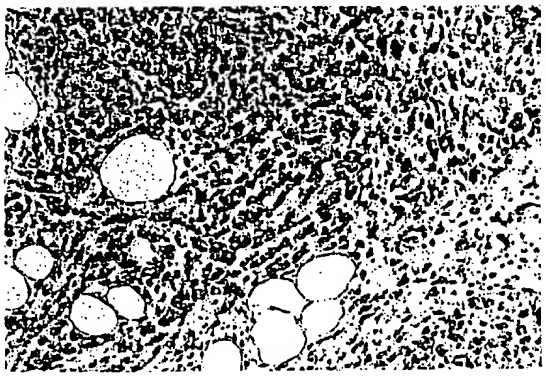


FIG.3B

Normal Breast
9712C030G H95C30

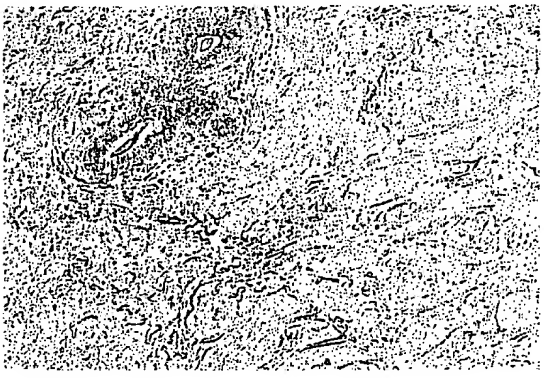


FIG.3C

MB8 Cell Line
H95C30

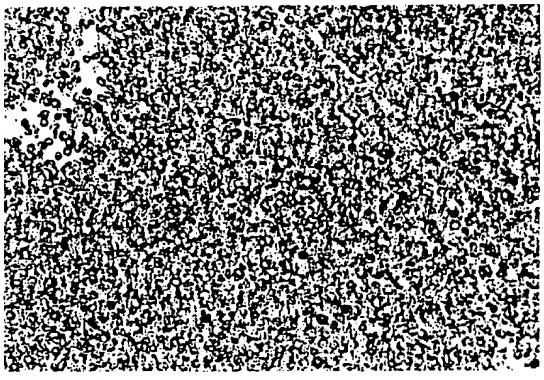


FIG.3D

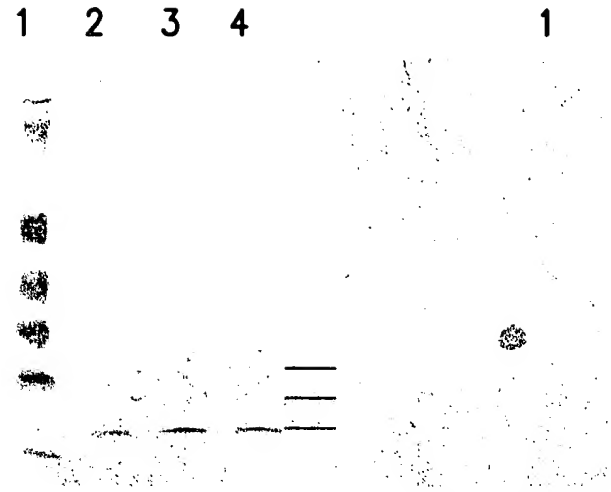


FIG.4A

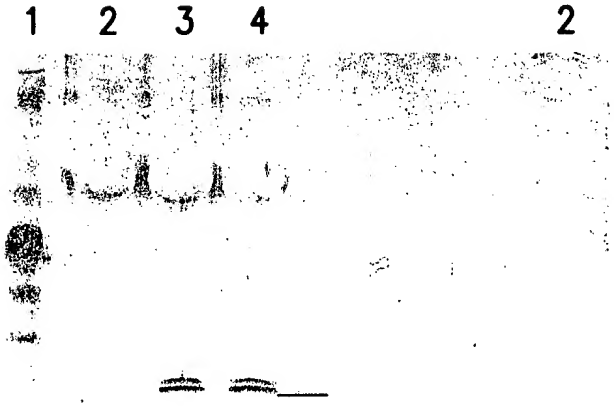
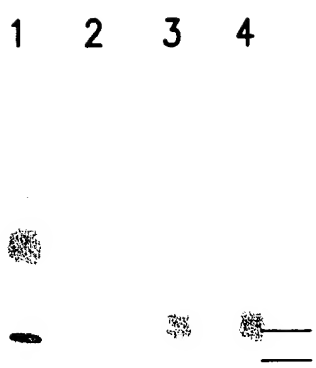
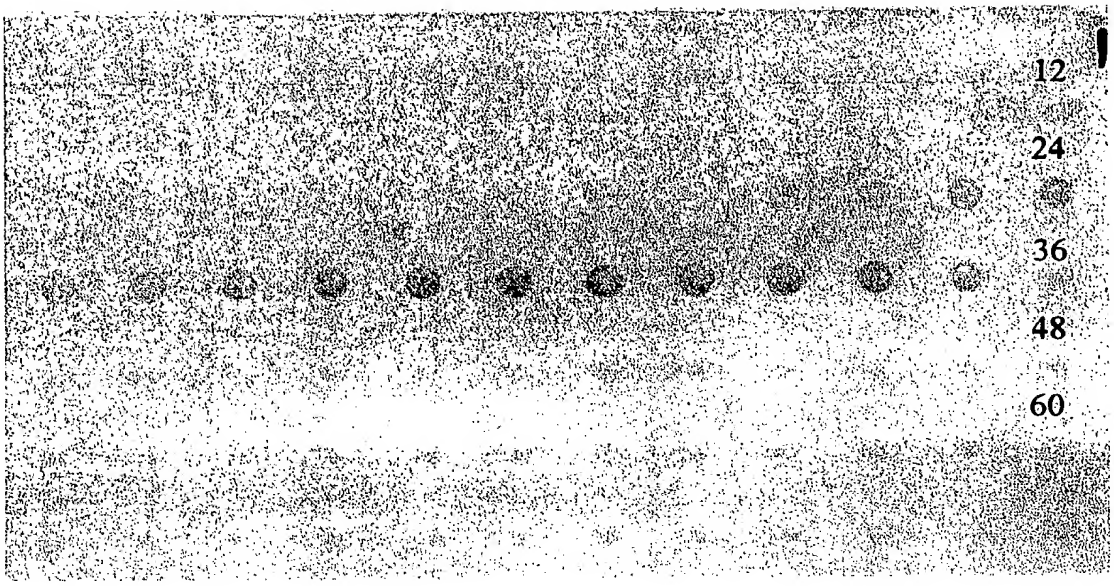


FIG.4B



anti-Mam PAb 10931

FIG.4C



anti-myc MAb

FIG.5A

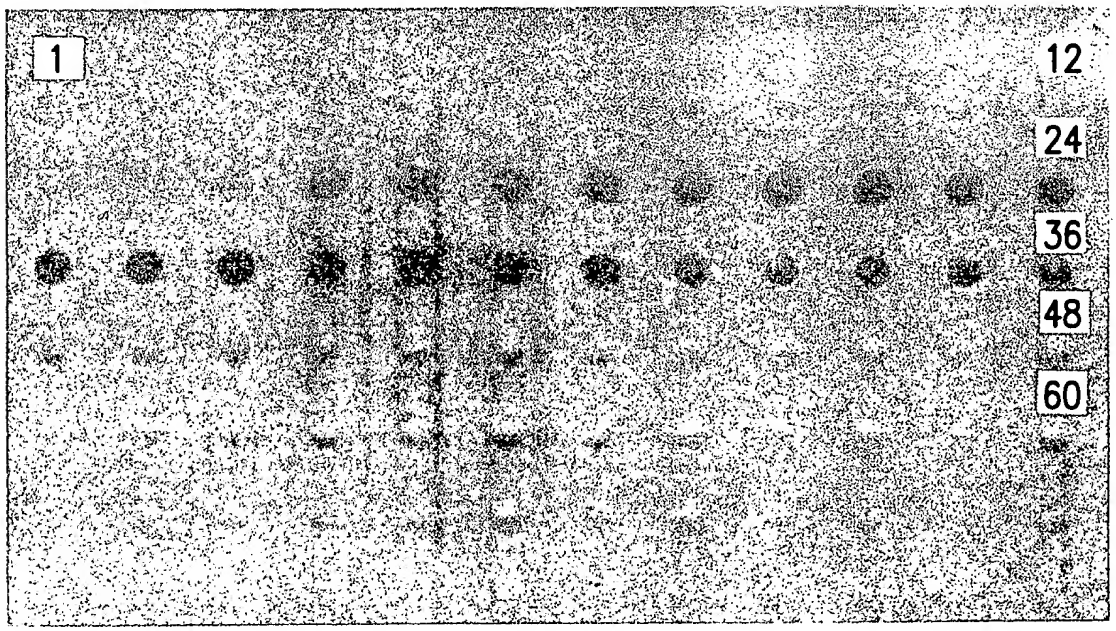


FIG.5B

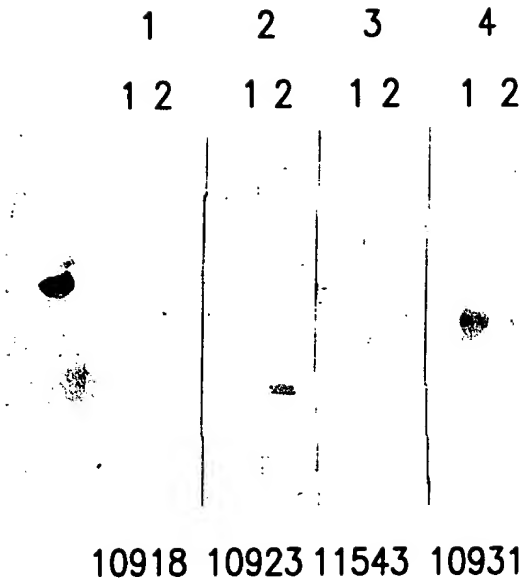

1 2 3 4
1 2 1 2 1 2 1 2
10918 10923 11543 10931

FIG.6A

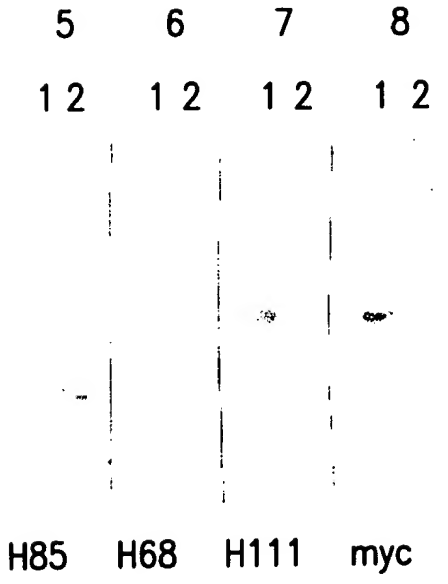
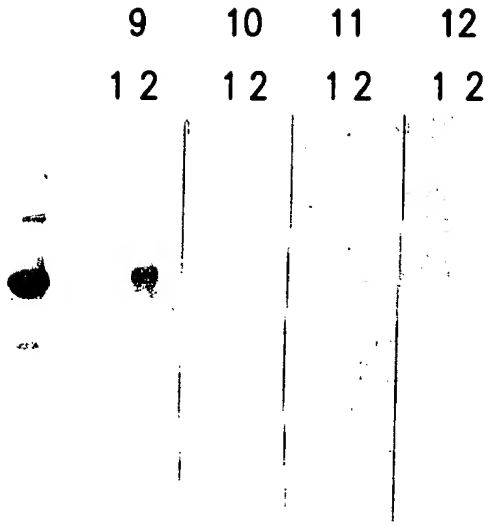

5 6 7 8
1 2 1 2 1 2 1 2
H85 H68 H111 myc

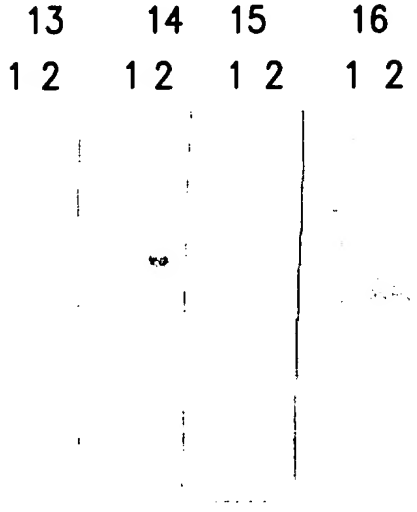
FIG.6B



10918 10923 11543 10931

Polyclonal Antisera, 1:5000

FIG.6C



H85 H68 H111 myc

Monoclonal Antibodies 1:50

FIG.6D

1 2

FIG.7

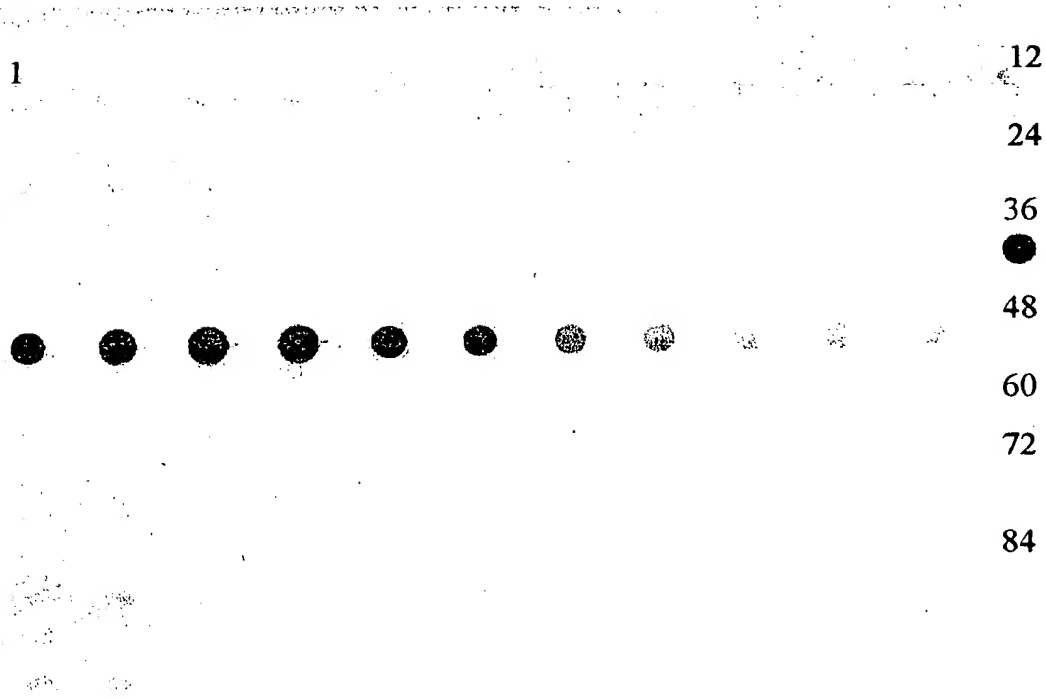


FIG.8A

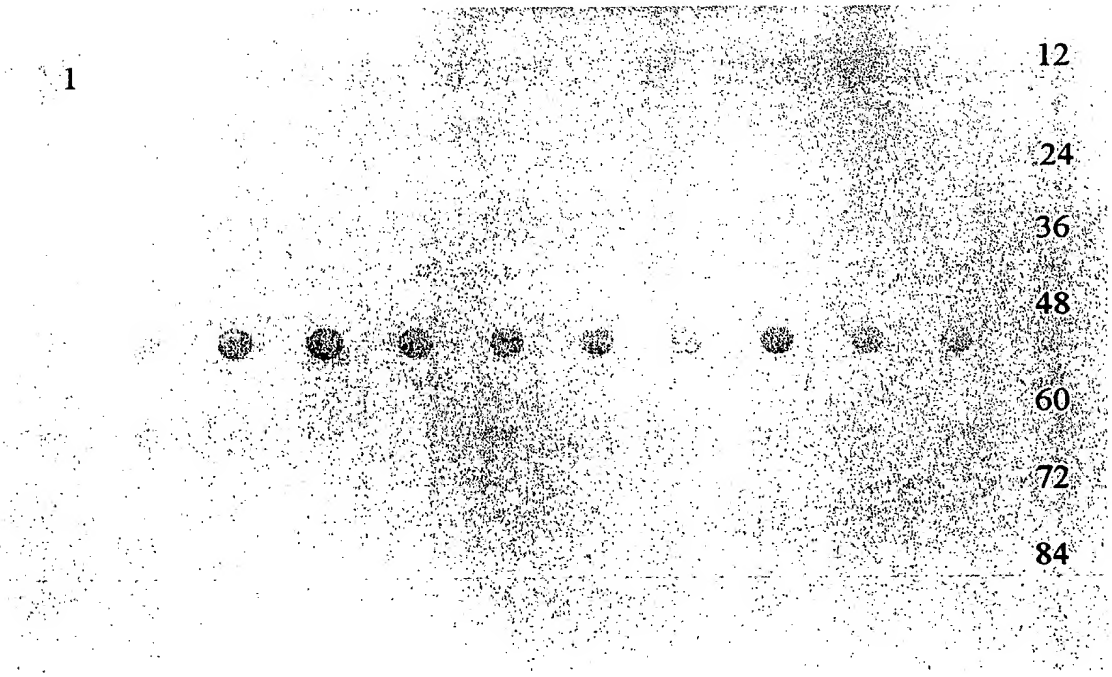


FIG.8B

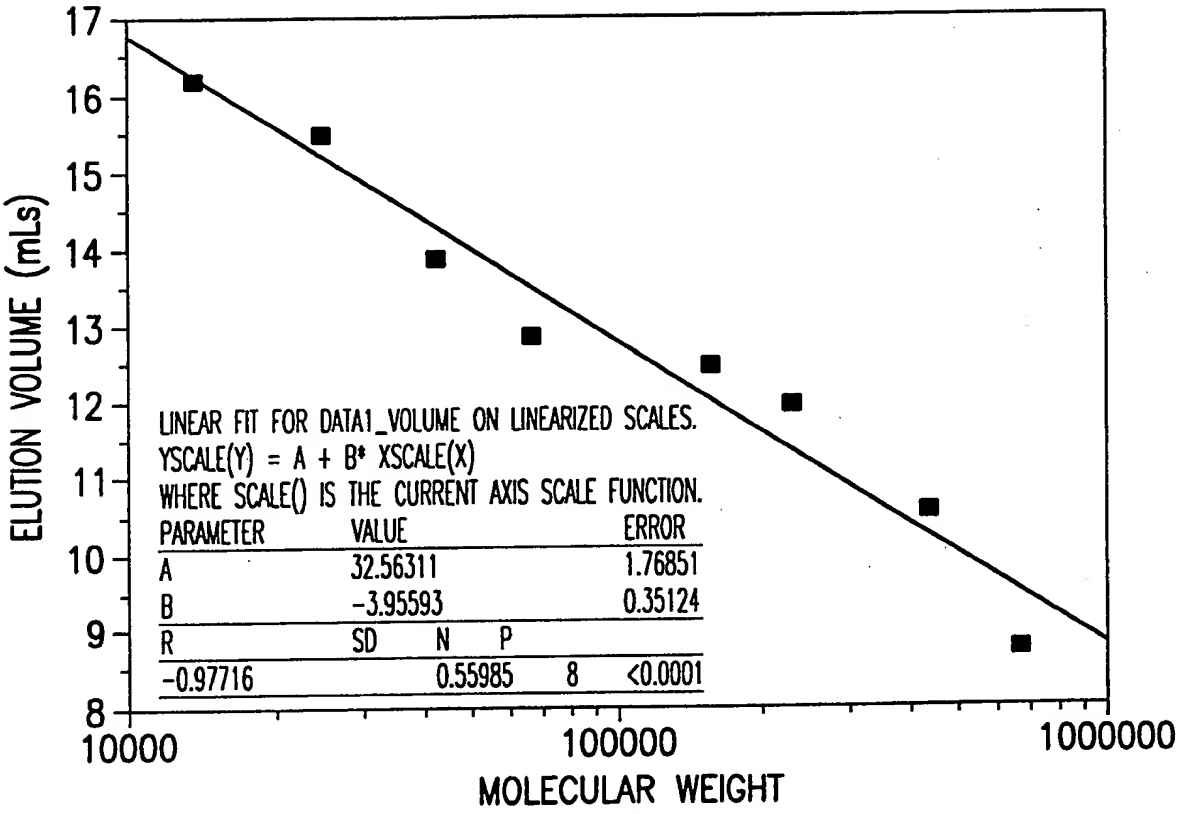

17
16
15
14
13
12
11
10
9
8
ELUTION VOLUME (mLs)
10000
100000
1000000
MOLECULAR WEIGHT
LINEAR FIT FOR DATA1_VOLUME ON LINEARIZED SCALES.
YSCALE(Y) = A + B* XSCALE(X)
WHERE SCALE() IS THE CURRENT AXIS SCALE FUNCTION.
PARAMETER VALUE ERROR
A 32.56311 1.76851
B -3.95593 0.35124
R SD N P
-0.97716 0.55985 8 <0.0001

FIG.9

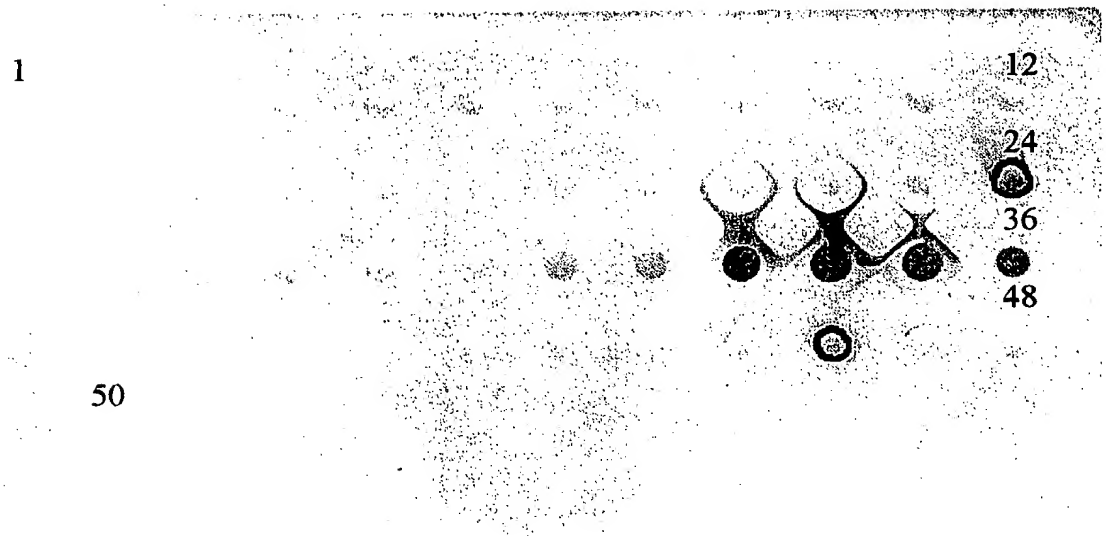


FIG.10

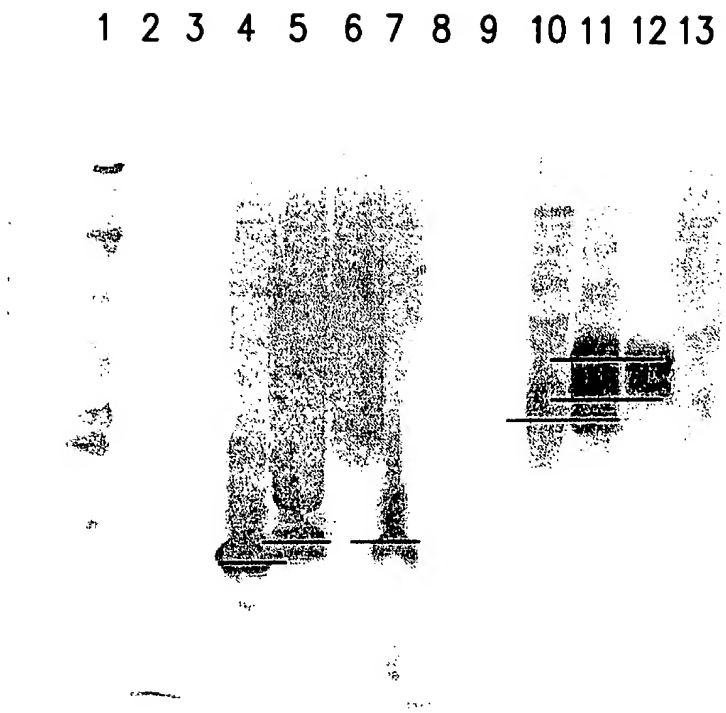


FIG.11A

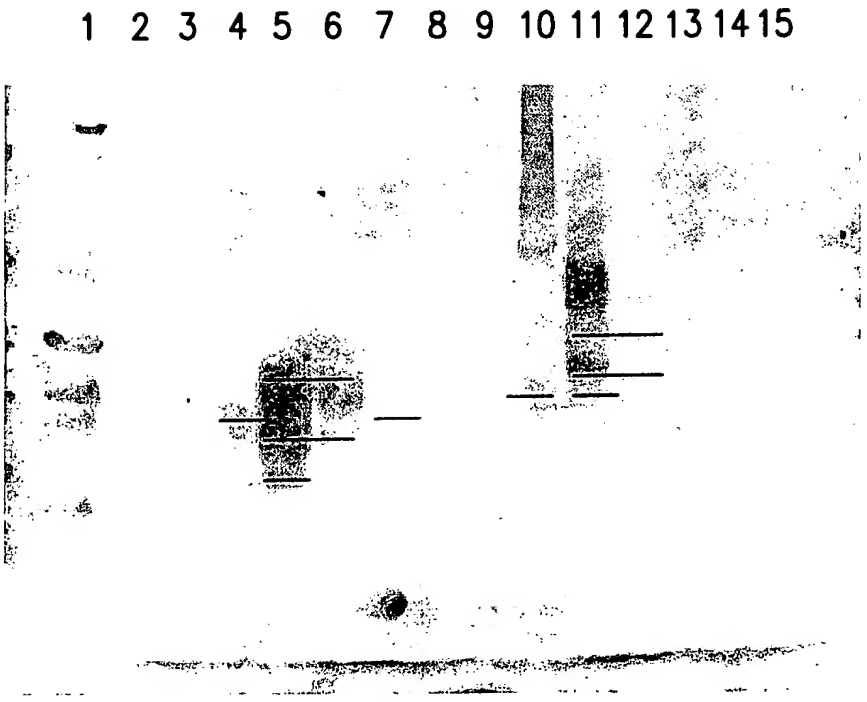
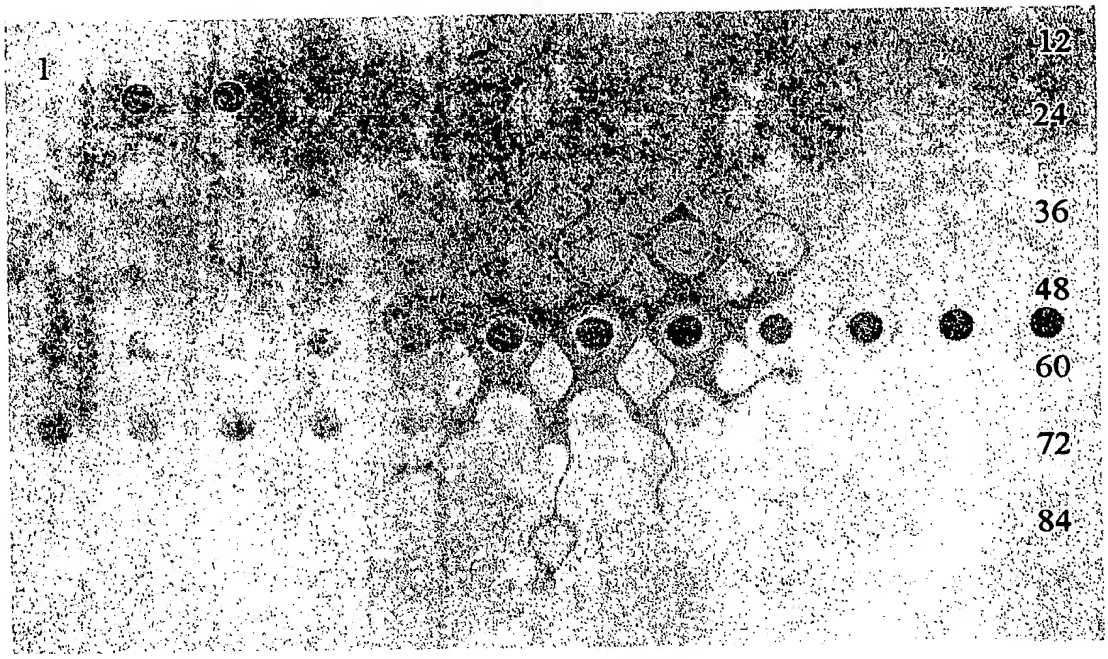
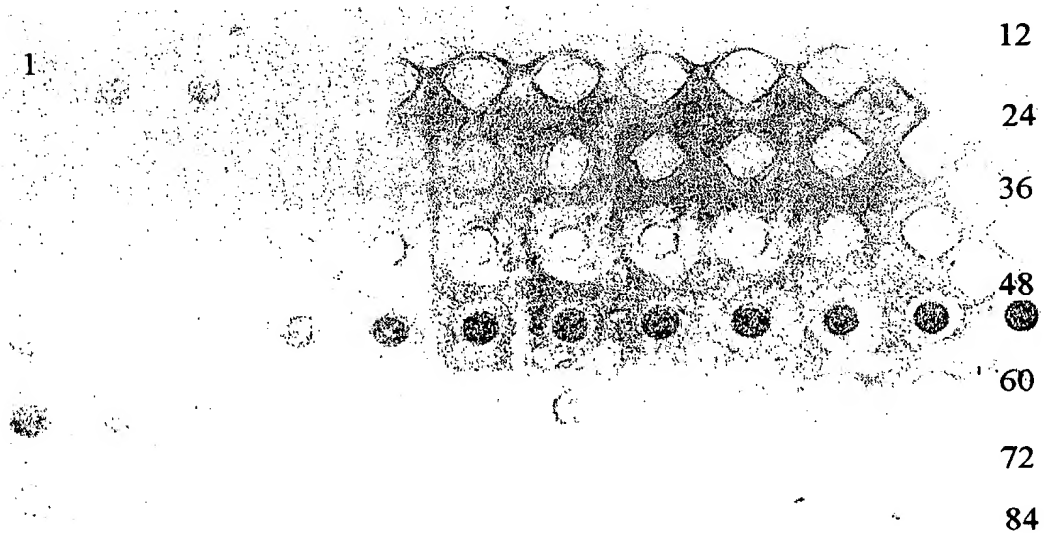


FIG.11B



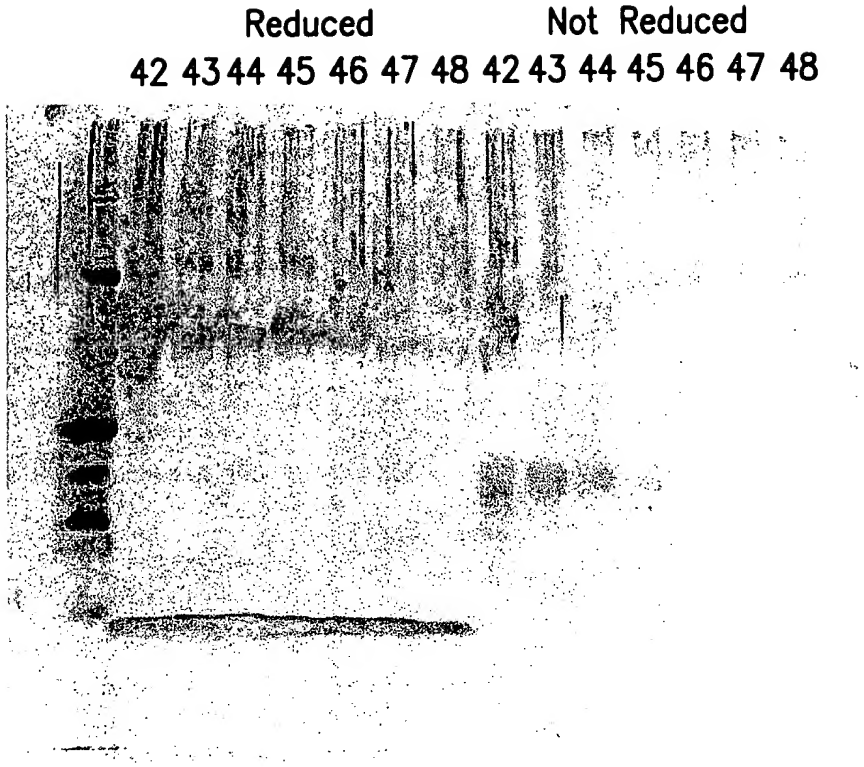
anti-BU101.3, 10923, 1:5000
sample reduced and boiled

FIG.12A



anti-MAM.1, 10931,1:5000
sample reduced and boiled

FIG.12B

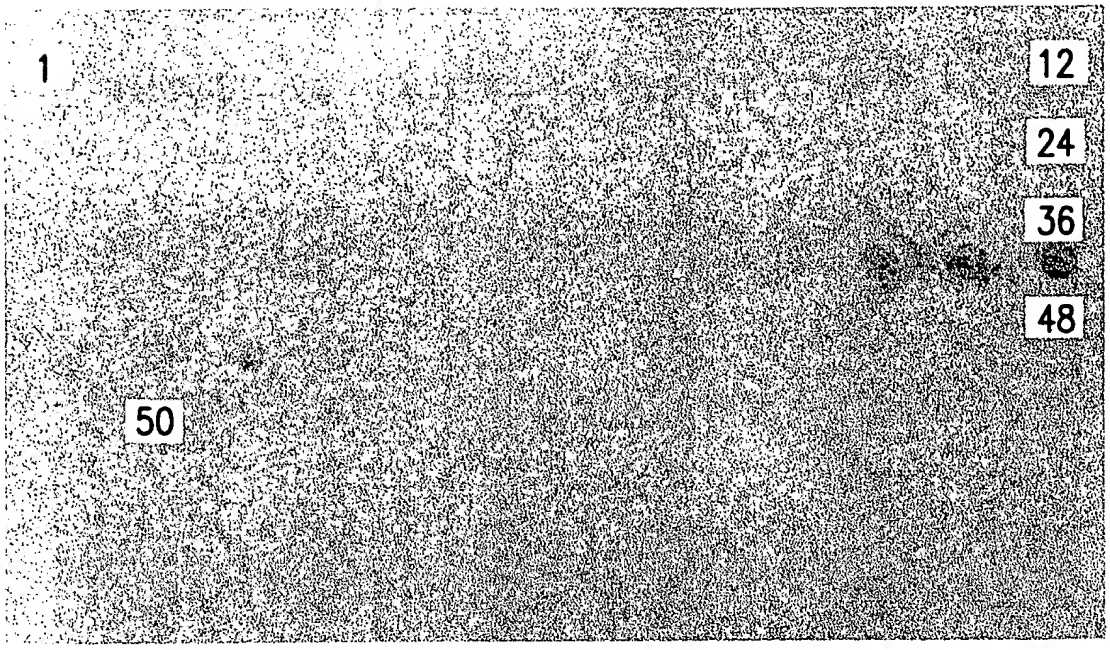


Polyclonal Antibody 10923
anti-BU101.3

FIG.13A

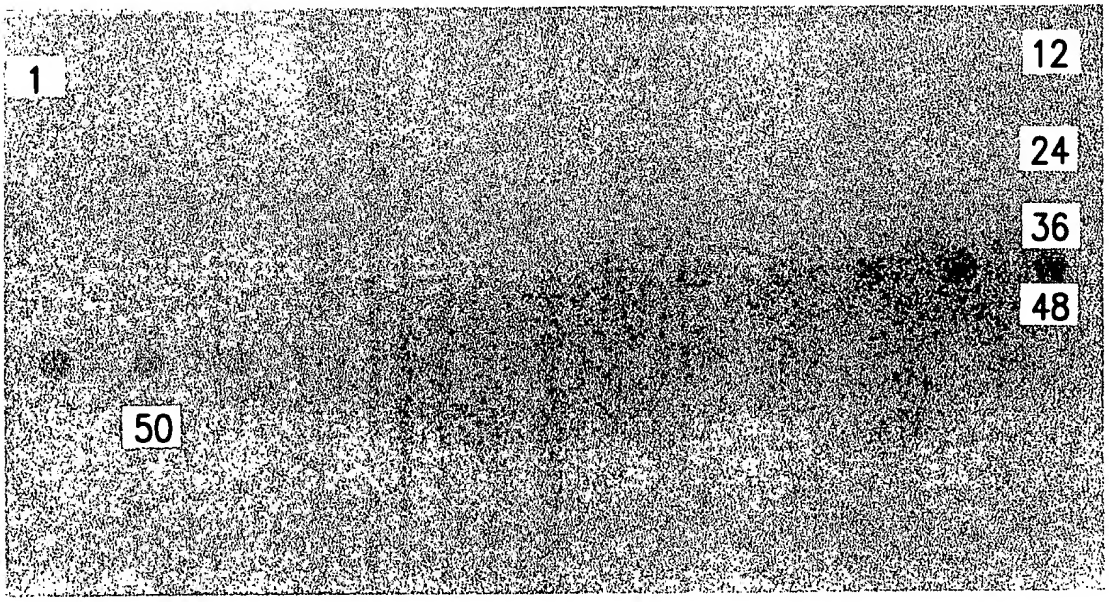
Polyclonal Antibody 10931
anti-MAM.1

FIG.13B



anti-BU101 polyclonal 10923

FIG.14A



anti-Mam polyclonal

FIG.14B

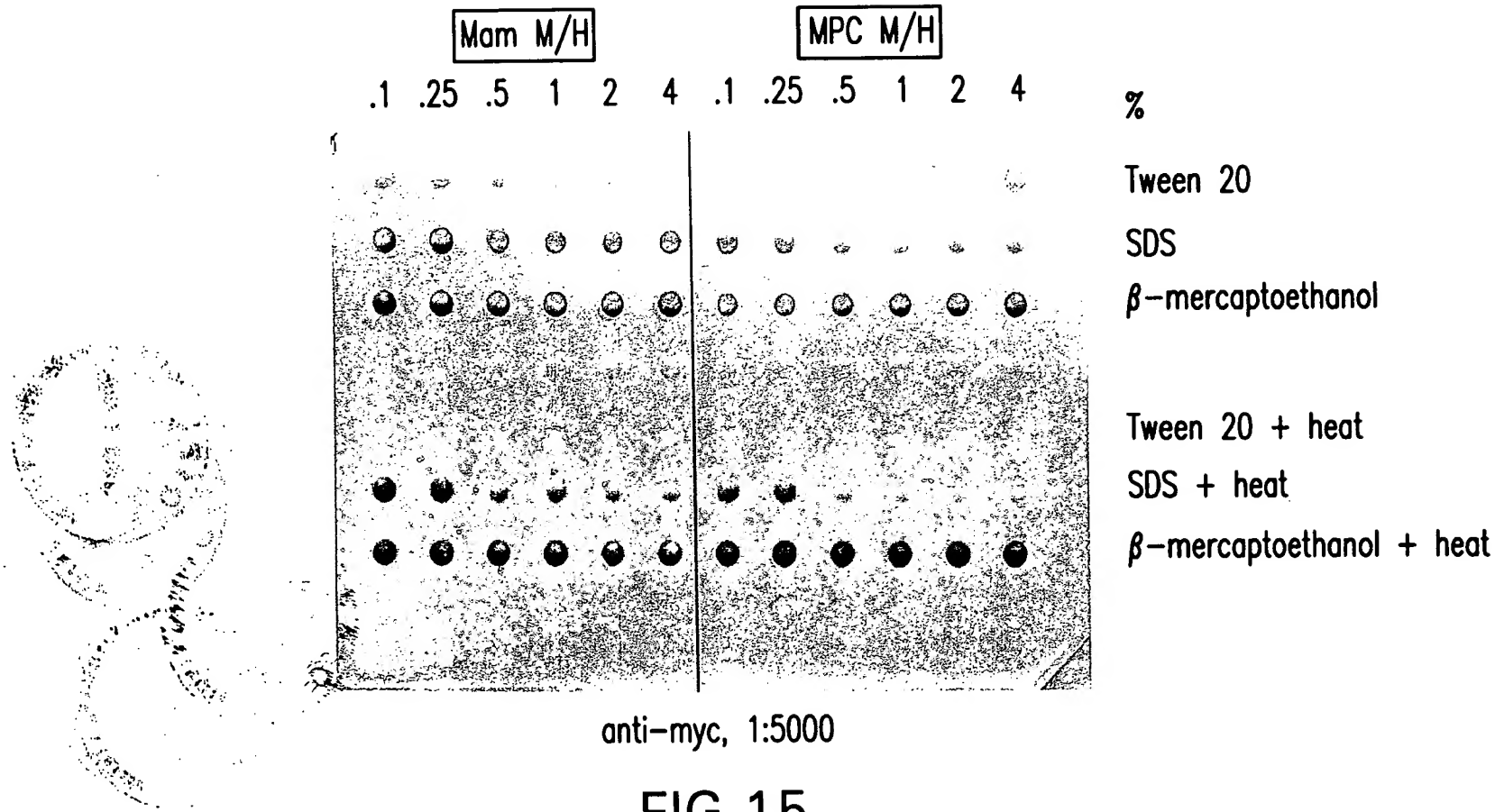

Mam M/H
MPC M/H
.1 .25 .5 1 2 4 .1 .25 .5 1 2 4
%
Tween 20
SDS
β−mercaptoethanol
Tween 20 + heat
SDS + heat
β−mercaptoethanol + heat
anti−myc, 1:5000

FIG.15

```
Met Lys Leu Ser Val Cys Leu Leu Leu Val Thr Leu Ala Leu Cys Cys
 1               5                  10                  15
Tyr Gln Ala Asn Ala Glu Phe Cys Pro Ala Leu Val Ser Glu Leu Leu
            20                  25                  30
Asp Phe Phe Phe Ile Ser Glu Pro Leu Phe Lys Leu Ser Leu Ala Lys
        35                  40                  45
Phe Asp Ala Pro Pro Glu Ala Val Ala Ala Lys Leu Gly Val Lys Arg
    50                  55                  60
Cys Thr Asp Gln Met Ser Leu Gln Lys Arg Ser Leu Ile Ala Glu Val
65                  70                  75                  80
Leu Val Lys Ile Leu Lys Lys Cys Ser Val
                85                  90
```

FIG.16

ASSEMBLY OF BS106 FROM INDIVIDUAL EXPRESSED TAGS

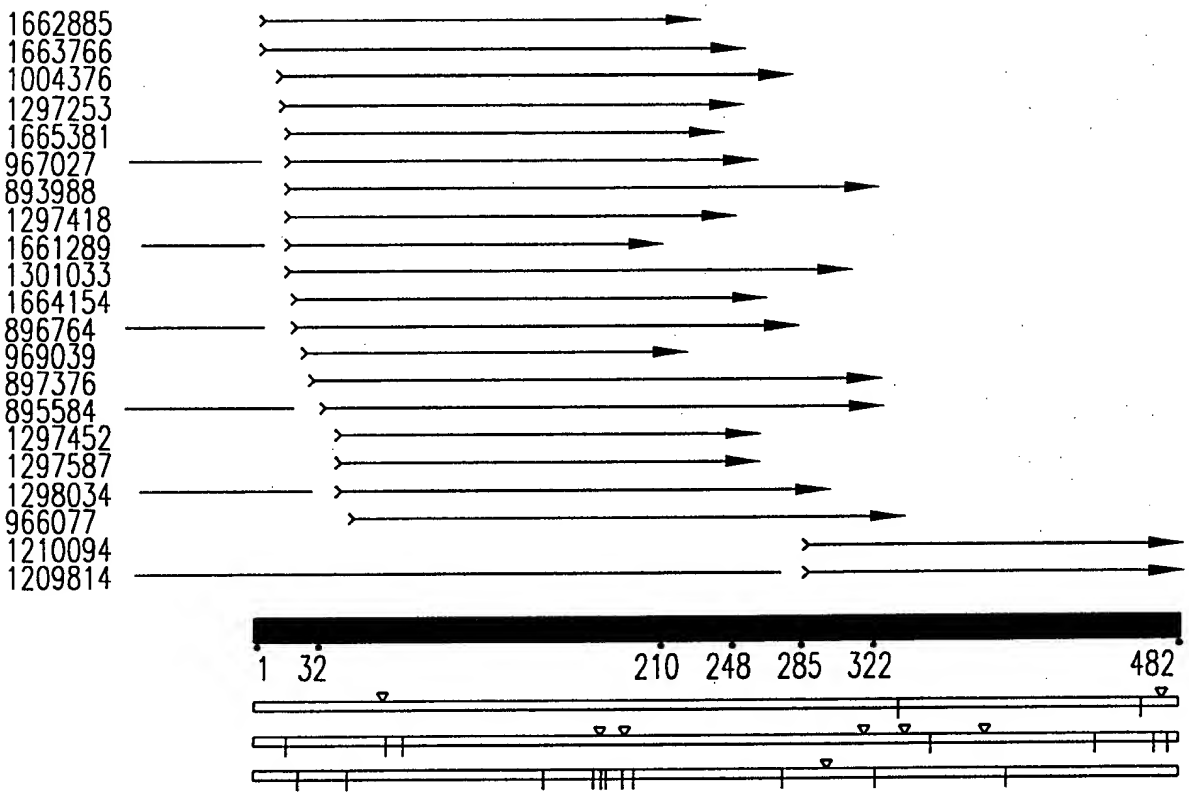


FIG.17

>BS106 CONSENSUS

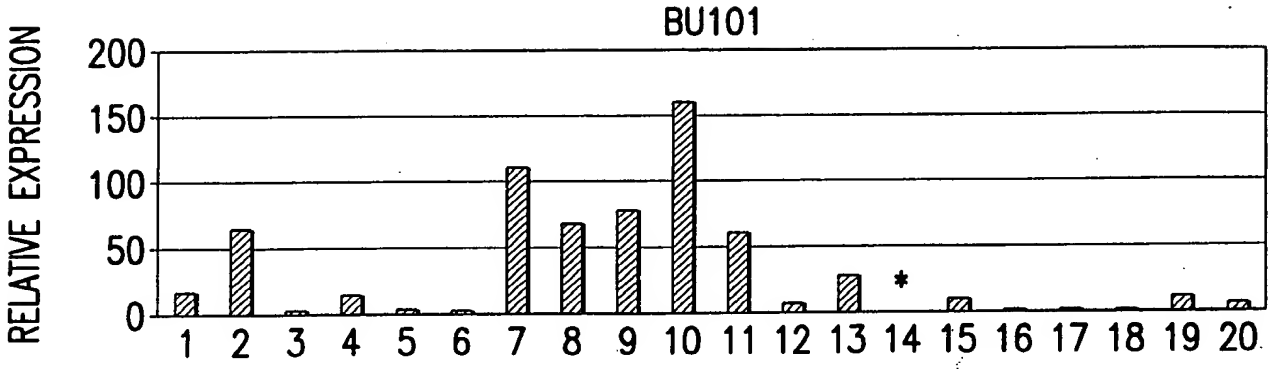
CGGCTCGAGCTCTTAGGCTTTGAAGCATTTTTGTCTGTGCTCCCT
GATCTTCAGGTCACCACCATGAAGTTCTTAGCAGTCCTGGTACTC
TTGGGAGTTTCCATCTTTCTGGTCTCTGCCCAGAATCCGACAACA
GCTGCTCCAGCTGACACGTATCCAGCTACTGGTCCTGCTGATGAT
GAAGCCCCTGATGCTGAAACCACTGCTGCTGCAACCACTGCGACC
ACTGCTGCTCCTACCACTGCAACCACCGCTGCTTCTACCACTGCT
CGTAAAGACATTCCAGTTTTACCCAAATGGGTTGGGGATCTTCCG
AATGGTAGAGTGTGTCCCTGAGATGGAATCAGCTTGAGTCTTCTG
CAATTGGTCACAACTATTCATGCTTCCTGTGATTTCATCCAACTA
CTTACCTTGCCTACGATATCCCCTTTATCTCTAATCAGTTTATTT
TCTTTCAAATAAAAAATAACTATGAGCAACATAAAAAAAAAAAAA

FIG.18A

>BS106 TRANSLATION

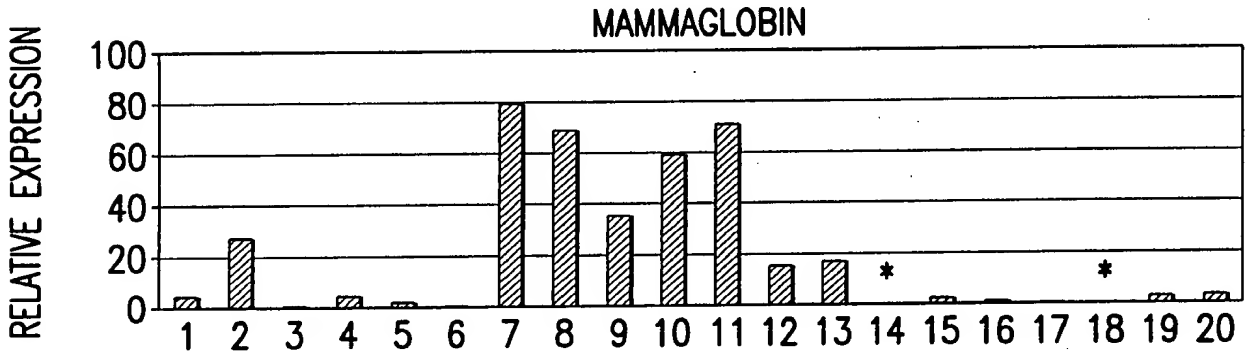
MKFLAVLVLLGVSIFLVSAQNPTTAAPADTYPATGPADDEAPDAE
TTAAATTATTAAPTTATTAASTTARKDIPVLPKWVGDLPNGRVCP

FIG.18B



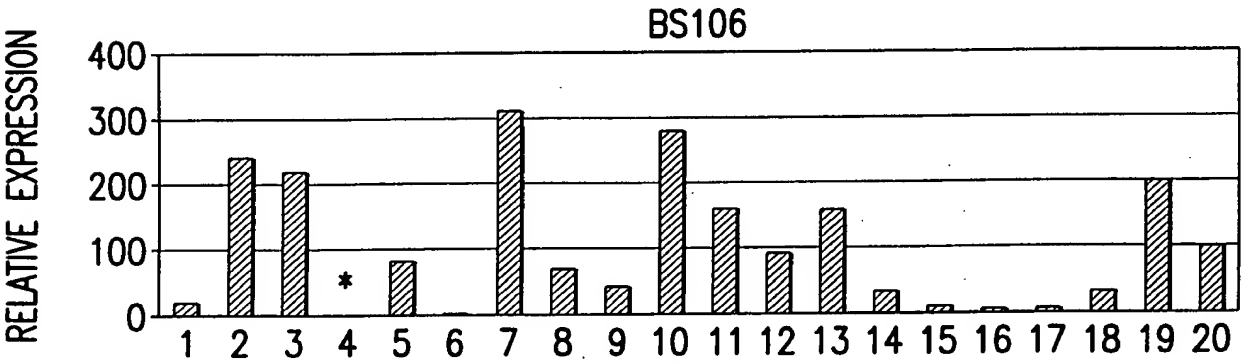
* EXPRESSION NOT DETECTABLE

FIG.19A



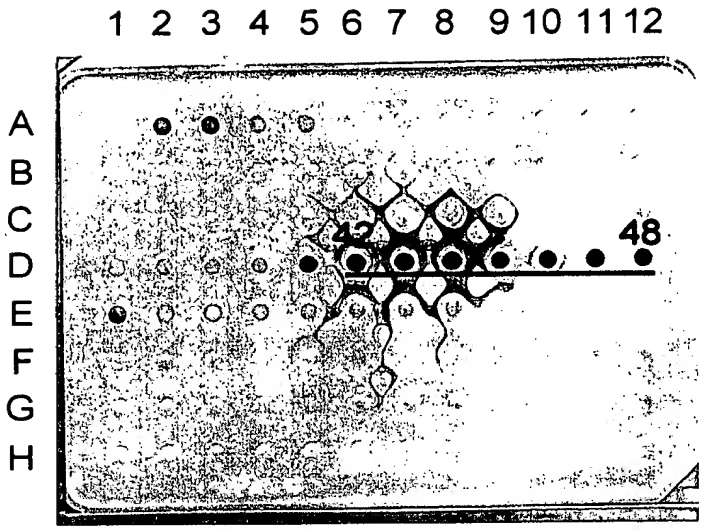
* EXPRESSION NOT DETECTABLE

FIG.19B



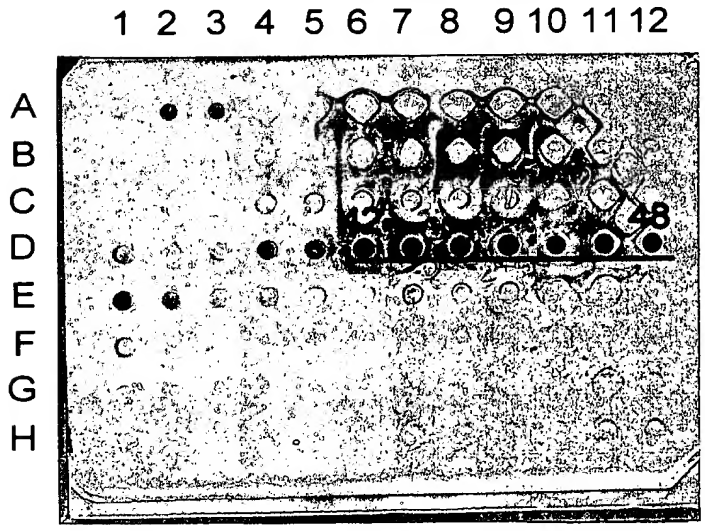
* EXPRESSION NOT DETECTABLE

FIG.19C



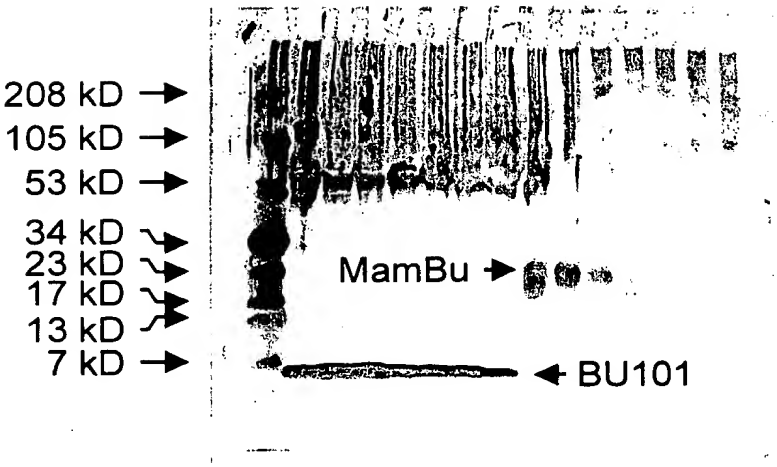
Anti-BU101.3 Polyclonal

FIG.20A



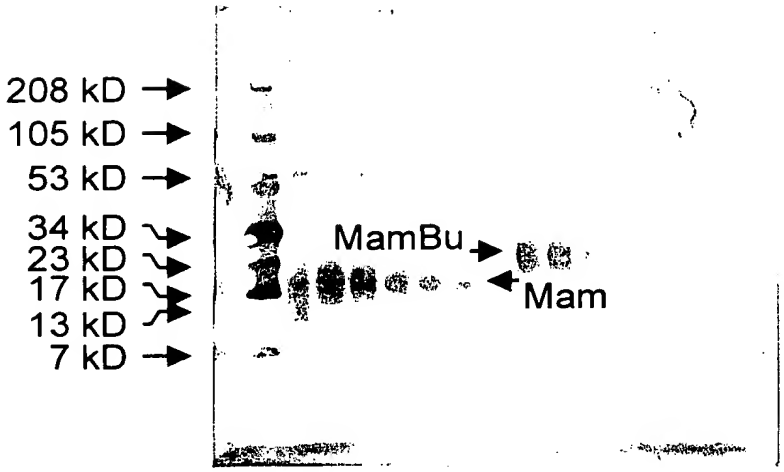
Anti-Mam.1 Polyclonal

FIG.20B



Anti-BU101.3 Polyclonal

FIG.20C



Anti-Mam.1 Polyclonal

FIG.20D

Correlations Between Marker Expression and Clinical and Molecular Parameters

	BU101	BS106	Mammaglobin	CK19	
T Stage	0.003 (NS)	-0.13 (NS)	-0.03 (NS)	-0.03 (NS)	N=95
Grade	-0.14 (NS)	0.12 (NS)	0.03 (NS)	0.06 (NS)	N=90
N Stage	0.05 (NS)	0.06 (NS)	0.04 (NS)	0.19 (NS)	N=85
Nodes +	-0.02 (NS)	0.01 (NS)	0.05 (NS)	0.23 (NS)	N=85
ER	-0.18 NS)	-0.10 (NS)	**-0.23 (p=0.02)**	-0.18 (NS)	N=99
PR	-0.18 (NS)	-0.10 (NS)	**-0.23 (p=0.02)**	-0.18 (NS)	N=99
HER2	-0.12 (NS)	**0.36 (p=0.003)**	0.11 (NS)	0.02 (NS)	N=67
P53	-0.19 (NS)	-0.16 (NS)	-0.02 (NS)	-0.14 (NS)	N=77
BU101	--------	-0.05 (NS)	0.37 (p=0.0001)	-0.04 (NS)	N=101
BS106	-0.05 (NS)	--------	0.004 (NS)	0.07 (NS)	N=101
Mamm	0.37 (p=0.0001)	0.004 (NS)	---------	0.07 (NS)	N=101

Pearson product moment correlations were calculated between each pair of variables. The only significant relationships observed are bolded and have included p values. **NS=not significant**

FIG.21